

SEQUENCE LISTING

<110> C. Frank Bennett
Susan M. Freier

<120> ANTISENSE MODULATION OF GLIOMA-ASSOCIATED ONCOGENE-3 EXPRESSION

<130> RTS-0258

<160> 90

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<212> DNA

<213> Artificial Sequence

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<223> Antisense Oligonucleotide

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<212> DNA

<213> Artificial Sequence

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<223> Antisense Oligonucleotide

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<210> 3

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<212> DNA

<213> Homo sapiens

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Glu Ala Gln Ser His Ser Ser Thr Thr Thr Glu Lys Lys Lys Val Glu
5 10 15

aat tcc ata gtg aag tgc tcc act cga aca gat gtg agc gag aaa gcc 153
Asn Ser Ile Val Lys Cys Ser Thr Arg Thr Asp Val Ser Glu Lys Ala
20 25 30

gtt gcc tcc agc acc act tct aat gag gat gaa agt cct gga cag act 201
Val Ala Ser Ser Thr Thr Ser Asn Glu Asp Glu Ser Pro Gly Gln Thr
35 40 45

tat cac aga gag aga aga aac gca atc act atg cag cca cag aat gtc 249
Tyr His Arg Glu Arg Arg Asn Ala Ile Thr Met Gln Pro Gln Asn Val
50 55 60 65

cag ggg ctc agc aaa gtc agt gag gaa cct tca aca tcg agt gac gag 297
Gln Gly Leu Ser Lys Val Ser Glu Glu Pro Ser Thr Ser Ser Asp Glu
70 75 80

agg gcc tca ttg atc aag aaa gag atc cat ggg tcc ctg cca cac gtg 345
Arg Ala Ser Leu Ile Lys Lys Glu Ile His Gly Ser Leu Pro His Val
85 90 95

gcg gag ccc tct gtg ccg tac cgc ggg acg gtg ttt gcc atg gac ccc 393
Ala Glu Pro Ser Val Pro Tyr Arg Gly Thr Val Phe Ala Met Asp Pro
100 105 110

agg aat ggt tac atg gag ccc cac tac cac cct cct cat ctt ttc cct 441
Arg Asn Gly Tyr Met Glu Pro His Tyr His Pro Pro His Leu Phe Pro

115	120	125	
gcc ttc cat cct cct gta cca att gat gcc aga cat cat gag ggc cgt			489
Ala Phe His Pro Pro Val Pro Ile Asp Ala Arg His His Glu Gly Arg			
130	135	140	145
tac cat tac gat cca tct ccg att cct cca ttg cat atg act tcc gcc			537
Tyr His Tyr Asp Pro Ser Pro Ile Pro Pro Leu His Met Thr Ser Ala			
150	155	160	
tta tct agt agc cct acg tat ccg gac ctg ccc ttc att agg atc tcc			585
Leu Ser Ser Ser Pro Thr Tyr Pro Asp Leu Pro Phe Ile Arg Ile Ser			
165	170	175	
cca cac cgg aac ccc gct gct gct tcc gag tct ccc ttc agc cct cca			633
Pro His Arg Asn Pro Ala Ala Ala Ser Glu Ser Pro Phe Ser Pro Pro			
180	185	190	
cat ccc tac att aat ccc tac atg gac tat atc cgc tcc ttg cac agc			681
His Pro Tyr Ile Asn Pro Tyr Met Asp Tyr Ile Arg Ser Leu His Ser			
195	200	205	
agc cca tcg ctc tcc atg atc tca gca acc cgt ggg ctg agc cct aca			729
Ser Pro Ser Leu Ser Met Ile Ser Ala Thr Arg Gly Leu Ser Pro Thr			
210	215	220	225
gat gcg ccc cat gca gga gtc agc cca gca gaa tac tat cat cag atg			777
Asp Ala Pro His Ala Gly Val Ser Pro Ala Glu Tyr Tyr His Gln Met			
230	235	240	
gcc ctg cta act ggc cag cgc agc ccc tat gca gac att att ccc tca			825
Ala Leu Leu Thr Gly Gln Arg Ser Pro Tyr Ala Asp Ile Ile Pro Ser			
245	250	255	
gct gcc acc gcc ggc acg ggg gcc atc cac atg gaa tat ctt cat gct			873
Ala Ala Thr Ala Gly Thr Gly Ala Ile His Met Glu Tyr Leu His Ala			
260	265	270	
atg gat agc acc aga ttc tcc agc ccc agg ctg tca gcc agg ccg agc			921
Met Asp Ser Thr Arg Phe Ser Ser Pro Arg Leu Ser Ala Arg Pro Ser			
275	280	285	
cga aaa cgt aca ctg tcc ata tca cca ctc tcc gat cat agc ttt gac			969
Arg Lys Arg Thr Leu Ser Ile Ser Pro Leu Ser Asp His Ser Phe Asp			

290	295	300	305	
ctt cag acc atg ata agg acg tct ccc aac tcc ttg gtc acg att ctc				1017
Leu Gln Thr Met Ile Arg Thr Ser Pro Asn Ser Leu Val Thr Ile Leu				
310		315	320	
aat aat tcc cgt agc agc tct tca gca agt ggc tcc tat ggt cac tta				1065
Asn Asn Ser Arg Ser Ser Ser Ser Ala Ser Gly Ser Tyr Gly His Leu				
325		330	335	
tct gca agt gca atc agc cct gcc ttg agc ttc acc tac tct tcc gcg				1113
Ser Ala Ser Ala Ile Ser Pro Ala Leu Ser Phe Thr Tyr Ser Ser Ala				
340		345	350	
ccc gtc tct ctc cac atg cat cag cag atc cta agc cga caa cag agc				1161
Pro Val Ser Leu His Met His Gln Gln Ile Leu Ser Arg Gln Gln Ser				
355		360	365	
tta ggt tca gcc ttt gga cac agc cct cca ctc atc cac cct gcc cca				1209
Leu Gly Ser Ala Phe Gly His Ser Pro Pro Leu Ile His Pro Ala Pro				
370		375	380	385
act ttt cca aca cag agg cct att cca ggg atc cct acg gtt ctg aac				1257
Thr Phe Pro Thr Gln Arg Pro Ile Pro Gly Ile Pro Thr Val Leu Asn				
390		395	400	
ccc gtc cag gtc agc tcc ggc cct tct gag tcc tca cag aac aag ccc				1305
Pro Val Gln Val Ser Ser Gly Pro Ser Glu Ser Ser Gln Asn Lys Pro				
405		410	415	
acg agt gag tct gca gtg agc agc act ggt gac ccg atg cac aac aag				1353
Thr Ser Glu Ser Ala Val Ser Ser Thr Gly Asp Pro Met His Asn Lys				
420		425	430	
agg tcc aag atc aaa ccc gat gaa gac ctc ccc agc cca ggg gct cgg				1401
Arg Ser Lys Ile Lys Pro Asp Glu Asp Leu Pro Ser Pro Gly Ala Arg				
435		440	445	
ggg cag cag gaa cag ccc gaa gga aca acc ctt gtc aag gag gaa ggg				1449
Gly Gln Gln Glu Gln Pro Glu Gly Thr Thr Leu Val Lys Glu Glu Gly				
450		455	460	465
gac aaa gat gaa agc aaa cag gag cct gaa gtc atc tat gag aca aac				1497
Asp Lys Asp Glu Ser Lys Gln Glu Pro Glu Val Ile Tyr Glu Thr Asn				

470	475	480	
tgc cac tgg gaa ggc tgc gcg agg gag ttc gac acc caa gag cag ctt			1545
Cys His Trp Glu Gly Cys Ala Arg Glu Phe Asp Thr Gln Glu Gln Leu			
485	490	495	
gtg cac cat ata aat aac gac cat att cat gga gag aag aag gag ttc			1593
Val His His Ile Asn Asn Asp His Ile His Gly Glu Lys Lys Glu Phe			
500	505	510	
gtg tgc agg tgg ctg gac tgc tca aga gag cag aaa ccc ttc aaa gcc			1641
Val Cys Arg Trp Leu Asp Cys Ser Arg Glu Gln Lys Pro Phe Lys Ala			
515	520	525	
cag tat atg ttg gta gtg cat atg aga aga cac acg ggc gag aag cct			1689
Gln Tyr Met Leu Val Val His Met Arg Arg His Thr Gly Glu Lys Pro			
530	535	540	545
cac aaa tgc act ttt gaa ggt tgc aca aag gcc tac tcg aga cta gaa			1737
His Lys Cys Thr Phe Glu Gly Cys Thr Lys Ala Tyr Ser Arg Leu Glu			
550	555	560	
aac ttg aaa aca cac ttg aga tct cac act gga gag aaa cca tac gtc			1785
Asn Leu Lys Thr His Leu Arg Ser His Thr Gly Glu Lys Pro Tyr Val			
565	570	575	
tgt gag cac gaa ggt tgc aac aag gct ttc tca aat gcc tct gat cgc			1833
Cys Glu His Glu Gly Cys Asn Lys Ala Phe Ser Asn Ala Ser Asp Arg			
580	585	590	
gcc aaa cac caa aac aga acg cat tcc aat gag aaa cca tat gtg tgc			1881
Ala Lys His Gln Asn Arg Thr His Ser Asn Glu Lys Pro Tyr Val Cys			
595	600	605	
aaa atc cca ggc tgc act aag cgt tac aca gac cca agc tcc ctc cgg			1929
Lys Ile Pro Gly Cys Thr Lys Arg Tyr Thr Asp Pro Ser Ser Leu Arg			
610	615	620	625
aaa cat gtg aag aca gtg cat ggc cca gag gct cat gtc acc aag aag			1977
Lys His Val Lys Thr Val His Gly Pro Glu Ala His Val Thr Lys Lys			
630	635	640	
cag cga ggg gac atc cat cct cgg ccg cca ccc ccg aga gat tcc ggc			2025
Gln Arg Gly Asp Ile His Pro Arg Pro Pro Pro Pro Arg Asp Ser Gly			

645	650	655	
agc cat tca cag tcc agg tgc cct ggc cga ccg act cag gga gcc ctt			2073
Ser His Ser Gln Ser Arg Ser Pro Gly Arg Pro Thr Gln Gly Ala Leu			
660	665	670	
ggt gag cag cag gac ctc agc aac act acc tca aag cgg gaa gaa tgc			2121
Gly Glu Gln Gln Asp Leu Ser Asn Thr Thr Ser Lys Arg Glu Glu Cys			
675	680	685	
ctc cag gtg aaa acc gtc aag gca gag aag cca atg aca tct cag cca			2169
Leu Gln Val Lys Thr Val Lys Ala Glu Lys Pro Met Thr Ser Gln Pro			
690	695	700	705
agc cct ggt ggt cag tct tca tgc agc agc caa cag tcc ccc atc agc			2217
Ser Pro Gly Gly Gln Ser Ser Cys Ser Ser Gln Gln Ser Pro Ile Ser			
710	715	720	
aac tat tcc aac agt ggg ctc gag ctt cct ctg acc gat gga ggt agt			2265
Asn Tyr Ser Asn Ser Gly Leu Glu Leu Pro Leu Thr Asp Gly Gly Ser			
725	730	735	
ata gga gac ctc agt gcc atc gat gaa acc cca atc atg gac tca acc			2313
Ile Gly Asp Leu Ser Ala Ile Asp Glu Thr Pro Ile Met Asp Ser Thr			
740	745	750	
att tcc act gca acc aca gcc ctt gct ttg caa gcc agg aga aac ccg			2361
Ile Ser Thr Ala Thr Thr Ala Leu Ala Leu Gln Ala Arg Arg Asn Pro			
755	760	765	
gca ggg acc aaa tgg atg gag cac gta aaa cta gaa agg cta aaa caa			2409
Ala Gly Thr Lys Trp Met Glu His Val Lys Leu Glu Arg Leu Lys Gln			
770	775	780	785
gtg aat gga atg ttt ccg cga ctg aac ccc att cta ccc cct aaa gcc			2457
Val Asn Gly Met Phe Pro Arg Leu Asn Pro Ile Leu Pro Pro Lys Ala			
790	795	800	
cct gcg gtc tct cct ctc ata gga aat ggc aca cag tcc aac aac acc			2505
Pro Ala Val Ser Pro Leu Ile Gly Asn Gly Thr Gln Ser Asn Asn Thr			
805	810	815	
tgc agc ttg ggt ggg ccc atg acg ctt ctc ccg ggc aga agc gac ctc			2553
Cys Ser Leu Gly Gly Pro Met Thr Leu Leu Pro Gly Arg Ser Asp Leu			

820	825	830	
tct ggg gtg gac gtc act atg ctg aac atg ctc aac aga agg gac agc			2601
Ser Gly Val Asp Val Thr Met Leu Asn Met Leu Asn Arg Arg Asp Ser			
835	840	845	
agc gcc agc acc atc agc tcg gcc tac ctg agc agc cgc cgc tcc tca			2649
Ser Ala Ser Thr Ile Ser Ser Ala Tyr Leu Ser Ser Arg Arg Ser Ser			
850	855	860	865
ggg atc tcg ccc tgc ttc tcc agc cgc cgc tcc agc gag gcg tca cag			2697
Gly Ile Ser Pro Cys Phe Ser Ser Arg Arg Ser Ser Glu Ala Ser Gln			
	870	875	880
gcc gag ggc cgg ccg cag aac gtg agc gtg gcc gac tcc tac gac ccc			2745
Ala Glu Gly Arg Pro Gln Asn Val Ser Val Ala Asp Ser Tyr Asp Pro			
	885	890	895
atc tcc acc gac gcc tcg cgc cgc tcc agc gaa gcc agc cag agc gac			2793
Ile Ser Thr Asp Ala Ser Arg Arg Ser Ser Glu Ala Ser Gln Ser Asp			
	900	905	910
ggc ctg ccc agc ctg ctc agc ctc acg ccc gcc cag cag tac cgc ctc			2841
Gly Leu Pro Ser Leu Leu Ser Leu Thr Pro Ala Gln Gln Tyr Arg Leu			
	915	920	925
aag gcc aag tac gcg gct gcc aca gga ggg ccg ccg ccg acg ccc ctg			2889
Lys Ala Lys Tyr Ala Ala Ala Thr Gly Gly Pro Pro Pro Thr Pro Leu			
	930	935	940
ccc aac atg gag agg atg agc ctg aag acg cgc ctg gcg ctg ctc ggg			2937
Pro Asn Met Glu Arg Met Ser Leu Lys Thr Arg Leu Ala Leu Leu Gly			
	950	955	960
gat gcc ctc gag cct ggc gtg gcc ctg cct cca gtt cat gcc ccg agg			2985
Asp Ala Leu Glu Pro Gly Val Ala Leu Pro Pro Val His Ala Pro Arg			
	965	970	975
agg tgc agc gac ggg gga gcc cac ggc tac ggg ccg cgc cac ctg cag			3033
Arg Cys Ser Asp Gly Gly Ala His Gly Tyr Gly Arg Arg His Leu Gln			
	980	985	990
ccg cac gat gcg ctg ggc cac ggc gtg agg agg gcc agc gac ccg gtg			3081
Pro His Asp Ala Leu Gly His Gly Val Arg Arg Ala Ser Asp Pro Val			

995	1000	1005	
cgg aca ggc tcc gag ggc ctg gcc ctg cct cgt gtg ccg cgc ttc agc			3129
Arg Thr Gly Ser Glu Gly Leu Ala Leu Pro Arg Val Pro Arg Phe Ser			
1010	1015	1020	1025
agc ctc agc agc tgc aac ccc ccg gcg atg gcc acg tcc gcg gag aag			3177
Ser Leu Ser Ser Cys Asn Pro Pro Ala Met Ala Thr Ser Ala Glu Lys			
1030	1035	1040	
cgc agt ctc gtg ctt cag aat tac acg cgg ccc gag ggc ggc cag tcc			3225
Arg Ser Leu Val Leu Gln Asn Tyr Thr Arg Pro Glu Gly Gly Gln Ser			
1045	1050	1055	
cga aac ttc cac tcg tcc ccc tgt cct ccc agc atc acc gag aac gtc			3273
Arg Asn Phe His Ser Ser Pro Cys Pro Pro Ser Ile Thr Glu Asn Val			
1060	1065	1070	
acc ctg gag tcc ctg acc atg gac gct gat gcc aac ctg aac gat gag			3321
Thr Leu Glu Ser Leu Thr Met Asp Ala Asp Ala Asn Leu Asn Asp Glu			
1075	1080	1085	
gat ttc ctg ccg gac gac gtg gtg cag tat tta aat tcc cag aac caa			3369
Asp Phe Leu Pro Asp Asp Val Val Gln Tyr Leu Asn Ser Gln Asn Gln			
1090	1095	1100	1105
gca ggg tac gag cag cac ttc ccc agc gcc ctc ccg gac gac agc aaa			3417
Ala Gly Tyr Glu Gln His Phe Pro Ser Ala Leu Pro Asp Asp Ser Lys			
1110	1115	1120	
gtg ccc cac ggg ccc ggt gac ttt gac gcg ccc ggg ctg cca gac agc			3465
Val Pro His Gly Pro Gly Asp Phe Asp Ala Pro Gly Leu Pro Asp Ser			
1125	1130	1135	
cac gct ggc cag cag ttc cat gcc ctc gag cag ccc tgc ccc gag ggc			3513
His Ala Gly Gln Gln Phe His Ala Leu Glu Gln Pro Cys Pro Glu Gly			
1140	1145	1150	
agc aaa acc gac ctg ccc att cag tgg aac gaa gtc agc tcc gga agc			3561
Ser Lys Thr Asp Leu Pro Ile Gln Trp Asn Glu Val Ser Ser Gly Ser			
1155	1160	1165	
gcc gac ctg tcc tcc tcc aag ctc aag tgt ggg ccg cgg ccc gct gtg			3609
Ala Asp Leu Ser Ser Ser Lys Leu Lys Cys Gly Pro Arg Pro Ala Val			

1170	1175	1180	1185	
ccg cag act cgc gcc ttt ggg ttc tgc aac ggc atg gtc gtc cac ccg				3657
Pro Gln Thr Arg Ala Phe Gly Phe Cys Asn Gly Met Val Val His Pro				
1190	1195	1200		
cag aac ccc ttg agg agc ggg cct gct ggg ggc tat cag acc ctc ggg				3705
Gln Asn Pro Leu Arg Ser Gly Pro Ala Gly Gly Tyr Gln Thr Leu Gly				
1205	1210	1215		
gag aac agc aac ccc tac ggt ggc cca gag cac ttg atg ctc cac aac				3753
Glu Asn Ser Asn Pro Tyr Gly Gly Pro Glu His Leu Met Leu His Asn				
1220	1225	1230		
agc ccc gga agt ggc acc agt gga aac gcc ttc cat gaa cag ccc tgt				3801
Ser Pro Gly Ser Gly Thr Ser Gly Asn Ala Phe His Glu Gln Pro Cys				
1235	1240	1245		
aag gcc ccg cag tat ggg aac tgt ctc aac agg cag cca gtg gcc cct				3849
Lys Ala Pro Gln Tyr Gly Asn Cys Leu Asn Arg Gln Pro Val Ala Pro				
1250	1255	1260	1265	
ggt gca ctc gac ggt gcc tgt ggt gcc ggg att caa gcc tca aag ctg				3897
Gly Ala Leu Asp Gly Ala Cys Gly Ala Gly Ile Gln Ala Ser Lys Leu				
1270	1275	1280		
aag agc acc ccc atg caa ggg agc ggg ggc cag ctg aat ttc ggc ctg				3945
Lys Ser Thr Pro Met Gln Gly Ser Gly Gly Gln Leu Asn Phe Gly Leu				
1285	1290	1295		
ccg gta gcg cca aat gag tca gct ggc agc atg gtg aat ggc atg cag				3993
Pro Val Ala Pro Asn Glu Ser Ala Gly Ser Met Val Asn Gly Met Gln				
1300	1305	1310		
aac cag gac cca gtg gga cag ggg tac ctg gct cac cag ctc ctc ggc				4041
Asn Gln Asp Pro Val Gly Gln Gly Tyr Leu Ala His Gln Leu Leu Gly				
1315	1320	1325		
gac agc atg cag cac ccg ggg gca ggc cgc ccc ggt cag cag atg ctt				4089
Asp Ser Met Gln His Pro Gly Ala Gly Arg Pro Gly Gln Gln Met Leu				
1330	1335	1340	1345	
ggg cag att agt gct acc tca cac atc aac atc tac caa ggg cca gag				4137
Gly Gln Ile Ser Ala Thr Ser His Ile Asn Ile Tyr Gln Gly Pro Glu				

1350	1355	1360	
agc tgc ctg cca ggg gct cac ggc atg ggc agc cag ccg tca agc ttg			4185
Ser Cys Leu Pro Gly Ala His Gly Met Gly Ser Gln Pro Ser Ser Leu			
1365	1370	1375	
gca gtt gtc agg ggc tac cag cca tgt gcc agc ttt ggg ggc agc agg			4233
Ala Val Val Arg Gly Tyr Gln Pro Cys Ala Ser Phe Gly Gly Ser Arg			
1380	1385	1390	
cgc cag gct atg ccg agg gac agc ctt gct ctg cag tca gga cag ctc			4281
Arg Gln Ala Met Pro Arg Asp Ser Leu Ala Leu Gln Ser Gly Gln Leu			
1395	1400	1405	
agt gac aca agt cag acc tgc agg gtg aat ggt atc aag atg gag atg			4329
Ser Asp Thr Ser Gln Thr Cys Arg Val Asn Gly Ile Lys Met Glu Met			
1410	1415	1420	1425
aaa ggg cag ccc cat ccg ctg tgc tct aat ctg cag aat tac tct ggt			4377
Lys Gly Gln Pro His Pro Leu Cys Ser Asn Leu Gln Asn Tyr Ser Gly			
1430	1435	1440	
cag ttc tat gac caa acc gtg ggc ttc agt cag caa gac acg aaa gct			4425
Gln Phe Tyr Asp Gln Thr Val Gly Phe Ser Gln Gln Asp Thr Lys Ala			
1445	1450	1455	
ggt tca ttc tct att tca gac gcc agc tgc ctg cta cag ggg acc agc			4473
Gly Ser Phe Ser Ile Ser Asp Ala Ser Cys Leu Leu Gln Gly Thr Ser			
1460	1465	1470	
gcc aaa aac tct gag tta ctt tcc cca ggt gct aat cag gtg aca agc			4521
Ala Lys Asn Ser Glu Leu Leu Ser Pro Gly Ala Asn Gln Val Thr Ser			
1475	1480	1485	
aca gtg gac agc ctc gac agc cat gac ctg gaa ggg gta cag att gac			4569
Thr Val Asp Ser Leu Asp Ser His Asp Leu Glu Gly Val Gln Ile Asp			
1490	1495	1500	1505
ttc gat gcc atc ata gac gat ggg gac cac tcc agc ctg atg tcg ggg			4617
Phe Asp Ala Ile Ile Asp Asp Gly Asp His Ser Ser Leu Met Ser Gly			
1510	1515	1520	
gcc ctg agc cca agt atc att cag aac ctt tcc cat agc tcc tcc cgc			4665
Ala Leu Ser Pro Ser Ile Ile Gln Asn Leu Ser His Ser Ser Ser Arg			

1525	1530	1535	
ctc acc acg cct cgg gcg tcc ctc cca ttc cca gtc gct gtc cat gag			4713
Leu Thr Thr Pro Arg Ala Ser Leu Pro Phe Pro Val Ala Val His Glu			
1540	1545	1550	
cac cac caa cat ggc tat cgg gga cat gag ttc ttt gct gac ctc cct			4761
His His Gln His Gly Tyr Arg Gly His Glu Phe Phe Ala Asp Leu Pro			
1555	1560	1565	
agc gga aga aag caa att cct tgc agt tat gca ata ggc ttt agg aaa			4809
Ser Gly Arg Lys Gln Ile Pro Cys Ser Tyr Ala Ile Gly Phe Arg Lys			
1570	1575	1580	1585
aaa aga ctg caa cca acg gaa atc aat agg agt tga agagattaaa			4855
Lys Arg Leu Gln Pro Thr Glu Ile Asn Arg Ser			
1590	1595		
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aactgagatg tgtttcaatt atattccttt tatggaaaag gactctgaaa aaccctaaag			4975
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<213> Artificial Sequence

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<223> PCR Primer

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<212> DNA

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<223> PCR Probe

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20

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<211> 106344

<212> DNA

<213> Homo sapiens

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tgttcaaagt ccccttctctg taaagttggc cacctgaaga gacatttgca gacgtggctt 240
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